Bay Area Defense Conversion Action Team Environmental Technology Partnership

A Public Private Partnership of:

Bay Area Economic Forum (BAEF)

Bay Area Regional Technology Alliance (BARTA)

California Environmental Protection Agency (CAL EPA)

Chevron Research and Technology Company

Engineering Field Activity West, Naval Facilities Engineering Command (EFA West)

Naval Facilities Engineering Service Center (NFESC)

SF State University CAREER/Pro

US Environmental Protection Agency (US EPA)

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BAY AREA DEFENSE CONVERSION ACTION TEAM ENVIRONMENTAL TECHNOLOGY PARTNERSHIP

The BADCAT Environmental Technology Partnership (BADCAT ETP) has three concurrent purposes:

1. To address the barriers and gaps in environmental technology development and commercialization, such as access to sites for field test, reliable cost and performance data, regulatory acceptance, interstate and intrastate data reciprocity, and venture capital funding.
2. To help expedite cleanup, transfer of properties, and economic conversion of Bay Area military bases.
3. To stimulate growth of the region's environmental technology industries.

To introduce less costly, more effective, time-saving technologies with regionwide applicability, BADCAT ETP solicited proposals for demonstrating emerging and innovative technologies that could remediate common petroleum and metal contaminants at Bay Area former military bases.

In January 1997 two technologies were selected from 21 proposals for their efficient, cost-effective and innovative capabilities to be demonstrated at Hunters Point Shipyard. **X-Ray Fluorescence (XRF) Detection Technology**, a field measurement technology offers tremendous cost-saving potential for providing measurements in the field with detection limits below most risk-based action levels. **Volume Reduction Remediation Technology** provides a fast and cost-effective method to recover contaminants from soil. The firm demonstrating XRF recently received a Naval contact in Southern California.

In Fall 1997, BADCAT ETP demonstrated, an **In-Situ Low Temperature Thermal Desorption (ISTD) Technology** applicable to volatile and semi-volatile organic compounds at Mare Island. The demonstration successfully tested the technology's efficiency in the removal of PCBs complicated by proximity to a structure desired for reuse. The demonstration led to the technology now being considered for certification in California and a contract on a Naval facility in Northern California. Additionally, a demonstration is occurring at Alameda Point of an **In-Situ Electro-Kinetic Metals Removal Technology**. These technologies offer great potential for cost-effective remediation of common Bay Area contaminants.

In 1997, the partnership assessed each naval base's priority technology needs and published the Final Environmental Technology Needs Assessment Report. The most prevalent outstanding technological need identified was long-term groundwater monitoring options. Thus the partnership is planning a demonstration with two technologies potentially able to offer more cost effective, accurate and rapid alternatives for groundwater monitoring and characterization.

Further, the partnership is planning a field test of bioremediation of petroleum and the abatement of lead based paint on residential wooden structures. Technology demonstrations in each of these areas are expected to take place in Spring 1999.